

### **AMENDMENTS TO THE CLAIMS**

The following listing of claims replaces all prior versions and listings of claims in the application.

#### **Listing of Claims:**

1. (Currently amended): A system for providing assistance in the regeneration of depollution means associated with oxidation catalyst-forming means, the means being integrated in an exhaust line of a motor vehicle diesel engine and in which the engine is associated with common manifold means for feeding the cylinders of the engine with fuel, and being adapted at constant torque to implement a strategy of regeneration by injecting fuel into the cylinders in at least one post-injection, the system comprising:

- means for detecting a regeneration request and thus a request for post-injection;
- means for detecting a period in which the engine is idling;
- means for acquiring the temperature downstream from the catalyst-forming means;
- means for determining a maximum quantity of fuel to be injected ~~during~~ through post-injections ~~while the engine is idling during this period by implementation of the strategy of regeneration~~, on the basis of said temperature; and
- reduction means for progressively reducing the or each post-injection as soon as the total quantity of fuel that has been injected through post-injections since the start of the post-injections during this period reaches the predetermined maximum quantity.

2. (Previously presented): A system according to claim 1, wherein the reduction means are

adapted to reduce the or each post-injection in application of a calibratable slope.

3. (Previously presented): A system according to claim 1, wherein the depollution means comprise a particle filter.

4. (Previously presented): A system according to claim 1, wherein the depollution means comprise a NO<sub>x</sub> trap.

5. (Previously presented): A system according to claim 1, wherein the fuel includes an additive for becoming deposited together with the particles with which it is mixed on the depollution means in order to facilitate regeneration thereof.

6. (Previously presented): A system according to claim 1, wherein the fuel includes an additive forming a NO<sub>x</sub> trap.

7. (Previously presented): A system according to claim 1, wherein the engine is associated with a turbocharger.

8. (New): A system according to claim 1, wherein the catalyst-forming means comprises an oxidation catalyst.

9. (New): A system according to claim 1, wherein the catalyst-forming means comprise a NO<sub>x</sub> trap with a CO/HC oxidation function.

10. (New): A system according to claim 1, wherein the period in which the engine is idling includes a period in which the acceleration pedal is raised.

11. (New): Method of providing assistance in the regeneration of depollution means associated with oxidation catalyst-forming means, the means being integrated in an exhaust line of a motor vehicle diesel engine and the engine being associated with common manifold means for feeding the cylinders of the engine with fuel, and being adapted at constant torque to implement a strategy of regeneration by injecting fuel into the cylinders in at least one post-injection, the method comprising:

- detecting a regeneration request and thus a request for post-injection;
- detecting a period in which the engine is idling;
- acquiring the temperature downstream from the catalyst-forming means;
- determining a maximum quantity of fuel to be injected through post-injections during this period by implementation of the strategy of regeneration, on the basis of said temperature;
- monitoring the total quantity of fuel injected through post-injections since the start of the post-injections during this period and detecting a moment when the total quantity of injected fuel reaches the predetermined maximum quantity; and
- progressively reducing the or each post-injection as soon as the total quantity of fuel that

has been injected through post-injections since the start of the post-injections during this period reaches the predetermined maximum quantity.

12. (New): A method according to claim 11, wherein the reduction step comprises reducing the or each post-injection in application of a calibratable slope.

13. (New): A method according to claim 11, wherein the depollution means comprise a particle filter.

14. (New): A method according to claim 11, wherein the depollution means comprise a NO<sub>x</sub> trap.

15. (New): A method according to claim 11, wherein the fuel includes an additive for becoming deposited together with the particles with which it is mixed on the depollution means in order to facilitate regeneration thereof.

16. (New): A method according to claim 11, wherein the fuel includes an additive forming a NO<sub>x</sub> trap.

17. (New): A method according to claim 11, wherein the engine is associated with a turbocharger.

18. (New): A method according to claim 11, wherein the catalyst-forming means comprises an oxidation catalyst.

19. (New): A method according to claim 11, wherein the catalyst-forming means comprise a NO<sub>x</sub> trap with a CO/HC oxidation function.

20. (New): A method according to claim 1, wherein the period of idling includes a period in which the acceleration pedal is raised.

.